



**IDAHO TRANSPORTATION DEPARTMENT**

600 W. Prairie Ave.  
Coeur d'Alene, ID 83815-8764

(208) 772-1200  
[itd.idaho.gov](http://itd.idaho.gov)

---

February 14, 2014

U.S. EPA Region 10  
Office of Water  
Attn: Ms. Julie Congdon - Storm Water Program  
1200 6<sup>th</sup> Avenue (OW-130)  
Seattle, Washington 98101

Re: MS4 2013 Annual Report

Dear Ms. Congdon:

The Idaho Transportation Department, District 1 hereby submits the enclosed MS4 Permit No. IDS-028223 Annual Report for 2013 and certifies the following:

*"I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties of submitting false information, including the possibility of fine and imprisonment for knowing violations."*

Please feel free to call me at 208-772-1200 if you have any questions or concerns regarding this report.

Sincerely,

Idaho Transportation Department

Jason Minzghor, P.E.  
Operations Manager

Cc: Idaho Department of Environmental Quality

Enclosure: MS4 2013 Annual Report

---

**MUNICIPAL SEPARATE STORM SEWER SYSTEM  
(MS4)  
EPA NPDES PERMIT NO.: IDS-028223  
2013 ANNUAL REPORT**

**IDAHO TRANSPORTATION DEPARTMENT  
DISTRICT ONE  
Kootenai County  
Coeur d'Alene, Idaho**

**SUBMITTED BY:  
IDAHO TRANSPORTATION DEPARTMENT  
DISTRICT ONE**

**FOR THE REPORTING PERIOD:  
JANUARY 1, 2013 TO DECEMBER 31, 2013**

**FEBRUARY 15, 2014**

## INTRODUCTION

This Annual Report has been submitted by the Idaho Transportation Department District One (ITD) in response to reporting requirements set forth in Part IV.C of the EPA Permit #IDS-028223. This permit was issued by the Environmental Protection Agency (EPA) in compliance with the National Pollutant Discharge Elimination System (NPDES) regulations covering storm water discharges from ITD's Municipal Separate Sewer System (MS4) located in Coeur d'Alene, Idaho. This report is hereby submitted to EPA and the Idaho Department of Environmental Quality (DEQ) to satisfy the permit reporting requirements for the fifth Annual Report covering the period from January 1, 2013 through December 31, 2013. The purpose of this Annual Report is to document progress toward achieving the minimum control measures associated with the ITD D1 MS4, as identified by ITD's Stormwater Management Program (SWMP). The permit and MS4 documentation can be accessed on the ITD website at:

<http://www.itd.idaho.gov/enviro/storm%20water/ms4/default.htm>

## MINIMUM CONTROL MEASURES IDENTIFIED BY THE SWMP

### *A. PUBLIC EDUCATION AND OUTREACH*

1. ITD Stormwater Training Opportunities – ITD offers instructor led training opportunities in the area of stormwater management and sediment and erosion control. In 2013, ITD provided the following statewide training opportunities to ITD personnel, consultants, and construction contractors:
  - There were two Initial Qualification classes (2-day) taught in 2013 and 41 people were trained.
  - There was one Environmental Inspector Requalification (8 hours) and 14 people were trained.
  - Water Pollution Control Manager Training (16 hours) – Seven classes were held in 2013 and 73 WPCMs were certified.
  - ITD conducted two 2-day consisting 15 staff and Mr. David Light, RUSTLE II Erosion Model Consultant.
2. ITD Stormwater Management, Sediment and Erosion Control Guidance - Ongoing improvements were made to ITD's website relative to the subject of stormwater management during the past reporting period. The ITD website is used as the principal tool for disseminating stormwater information and continues to be the appropriate location to reference the most recent stormwater guidance from ITD. Noteworthy recent changes to the website include: Updated BMP Manual; updated design specifications;

SWPPP Review Checklist (ITD Form 2959); SWPPP Template (ITD Form 2950) was updated in August 2013.

ITD also contracted with Mr. David Light, RUSTLE II Erosion Model Consultant to conduct two 2-day workshops with ITD design and environmental staff to develop an Idaho-specific RUSTLE II erosion prediction model. The RUSTLE model has been used for erosion prediction in the agricultural industry for many years. Some states have adapted this model for use on roadway construction projects as a tool for BMP selection. The RUSTLE II model is also a tool that can be used to complete “buffer analyses” as described in the 2012 Construction General Permit. The model and its user guide are currently available for downloading from the ITD website.

3. ITD Stormwater Newsletters - ITD develops and distributes a stormwater management newsletter focusing on the latest stormwater, sediment and erosion control news and information in Idaho. Two newsletters were released in 2013 for the summer and fall. The newsletters are attached to this report and are also available on the ITD website.

## ***B. PUBLIC INVOLVEMENT/PARTICIPATION***

1. ITD Website - ITD continues to maintain an MS4 section on its website. The ITD D1 MS4 permit, annual reports and MS4 map are available on the website for viewing. The public can contact ITD with any comments or questions through the website.
2. ITD Maintenance Section Public Involvement - ITD’s Operations Manager and staff are responsible for performing highway maintenance activities on ITD right of way, including maintenance of stormwater infrastructure. Any public or regulatory agency concerns and comments can be directed to the ITD District 1 Operations Manager at any time during normal business hours by calling 208-772-1200, accessing the ITD website or by visiting or writing to the District 1 Office at 600 W. Prairie Avenue Coeur d’Alene, Idaho 83815.
3. ITD Transportation Planning Activities - ITD routinely participates the Kootenai Metropolitan Planning Organization (KMPO) quarterly meetings. Formed in 2003, KMPO and its technical arm, the Kootenai County Area Transportation Team (KCATT), meet monthly to facilitate its mission. These groups oversee transportation activities within the federally designated urban area boundary, develop the transportation work plan and a transportation demand model. The KMPO consists of several transportation and land use planning organizations that include the following: Cities of Coeur d’Alene,

Post Falls, Hayden, Rathdrum, Kootenai County, Post Falls Highway District, Lakes Highway District, Eastside Highway District and ITD. The KMPO process also helps shape projects that may become incorporated into ITD's STIP, as discussed earlier. KMPO meetings include an open public comment agenda item to allow for public involvement in KMPO activities. Stormwater issues or concerns may be raised by the public during KMPO meeting. In 2013, there was no indication to ITD of stormwater-related public comments, as voiced during KMPO activities. The KMPO/KCATT public involvement forum will continue to provide a forum for public involvement with the MS4.

4. Adopt a Highway Program – In 2013, the program involved 130 groups (1787 participants) and cleaned 241 miles of roadway (including I-90 through Coeur d'Alene) and recovered 83,860 pounds of litter.

### ***C. ILLICIT DISCHARGE DETECTION AND ELIMINATION***

1. Dry Weather Screening - On August 30, 2013, the I-90 stormwater system was visually observed at open ditches and pipe outfalls during a routine water quality sampling event. There were no illicit discharges detected (see IDDE log).
2. Spill Response - ITD's spill response procedures are identified in the *Transportation Incident Management Plan for the State of Idaho, January 2008*. This document can be obtained from the ITD website at:  
[http://www.itd.idaho.gov/publications/detour/ITD%20TIM%20Plan\\_Final\\_2008.pdf](http://www.itd.idaho.gov/publications/detour/ITD%20TIM%20Plan_Final_2008.pdf)
3. Complaint Filing - ITD has also set up an electronic file folder to record and track any public complaints or information that may be received. Complaints or other information related to MS4 management and operation can be communicated to the District 1 Headquarters office at 208-772-1200. No specific complaints were recorded during the 2013 reporting period.
4. ITD MS4 Map - ITD has developed a stormwater infrastructure map of the I-90 facility within the city limits of Coeur d'Alene. The map may be modified over time with new information and is posted on the ITD website for viewing at:  
<http://www.itd.idaho.gov/enviro/storm%20water/ms4/GIS%20Maps/MS4%20Map%20of%20CdA.pdf>.

5. Illicit Discharge Training - As discussed in Control Measure 1, ITD implements an ongoing stormwater education and training program for its employees and interested contractors in the area of NPDES regulations, stormwater management, and sediment and erosion control BMPs. The program will be maintained, updated, and revised periodically as regulations change and BMP technical support materials are updated.

#### ***D. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL***

No construction projects were undertaken within the MS4 area during 2013.

#### ***E. POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT***

No development or redevelopment projects were undertaken within the MS4 area during 2013.

#### ***F. POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS***

The principle stormwater pollutant in highway runoff is sediment (sand) from highway sanding operations. Sediment deposits can build up along roadway shoulders, catch basins, and within open ditches along the roadway. Maintenance activities to address sedimentation of the system include periodic shoulder shaping, drop inlet sediment removal, and ditch cleaning to maintain the original line and grade of the stormwater system. In recent years ITD has scaled back on its use of sand for use as anti-skid material and now uses more salt brine than in the past. Less sanding on I-90 generally means less frequent maintenance to remove sand deposits on shoulders and from drop inlets and ditches. Routine roadway brooming and drop inlet maintenance was conducted in April of the reporting period.

ITD maintenance personnel inspected the I-90 stormwater conveyance system in August 2013. All of the highway embankment slopes along the facility are currently stable with no signs of erosion. The catch basins, piping and ditches appear to be in proper working condition. Currently ITD has no concerns with the MS4 operation and no immediate plans to perform ditch maintenance. In the future, if sediment removal becomes necessary again, the work will be conducted during dry weather periods when the MS4 is dry and the potential for sediment discharge is low.

Operation and maintenance (O&M) of the I-90 MS4 does not require any of the following activities: fleet vehicle maintenance and washing, materials storage, building maintenance, grounds/park maintenance, hazardous material storage, used oil recycling, sand/salt storage, solid waste transfer activities, spill control and prevention measures for refueling facilities, or snow disposal site operation.

***G. CONTROL OF THE DISCHARGE OF POLLUTANTS OF CONCERN***

Samples were collected per the MS4 permit requirements in 2013 (see updated data log). In 2013 ITD developed a plan to install automated stormwater sampling equipment at the MS4 sampling point in the vicinity of the Sherman Avenue interchange. The equipment is currently being procured and the monitoring station is expected to be operational in 2014. The site will monitor all of the parameters specified in the MS4 permit. Automated sampling will improve ITD's ability to respond to storm events by consistently monitoring water quality during the "first flush" of targeted storm events.

***H. RESULTS OF INFORMATION COLLECTED AND ANALYZED DURING THE PREVIOUS 12 MONTH PERIOD:***

See Attached.

***I. SUMMARY OF THE NUMBER OF INSPECTIONS, FORMAL ENFORCEMENT ACTIONS AND SIMILAR ACTIONS PERFORMED BY THE PERMITTEE:***

No formal enforcement actions or recommendations were filed during 2013.

***J. SUMMARY OF NON-EPA RELATED COMPLAINTS AND/OR ENFORCEMENT ACTIONS:***

There were no non-EPA related complaints and/or enforcement actions.

***K. COPIES OF EDUCATIONAL MATERIALS, ORDINANCES, INVENTORIES, GUIDANCE MATERIALS OR OTHER PRODUCTS:***

Refer to ITD website.

***L. ACTIVITIES TO BE UNDERTAKEN IN COMING YEAR:***

Continue water quality monitoring; make improvements to the water quality monitoring stations; conduct dry weather survey.

***M. DESCRIPTION AND SCHEDULE FOR IMPLEMENTATION OF  
ADDITIONAL BMPS THAT MAY BE NECESSARY BASED ON MONITORING  
RESULTS TO ENSURE COMPLIANCE WITH APPLICABLE WATER  
QUALITY STANDARDS:***

None

***N. NOTICE IF THE PERMITTEE IS RELYING ON ANOTHER ENTITY TO  
SATISFY PERMIT OBLIGATIONS:***

None

**ATTACHMENTS**

- ITD 2013 Stormwater Newsletters
- ITD D1 MS4 2013 Water Quality Laboratory Results



# STORM EVENTS

Volume 7, Issue 2

ITD STORMWATER NEWSLETTER

Summer 2013

*Promoting Responsible Stormwater Management Practices Throughout the Idaho Transportation Department and Beyond*

## Form/Template Updates

### SWPPP Template - #2950

This Stormwater Pollution Prevention Plan template was developed as ITD form #2950 in spring of 2013, with the most current version dated 04/2013. It should be used on all new projects that will have coverage under the Construction General Permit. The various SWPPP recordkeeping documents found in the SWPPP Appendix are now ITD forms 2951 through 2958, and therefore available on Form Finder II and the ITD Stormwater website under Construction - SWPPP Management.

### Stormwater Inspection Form - #2802

ITD form #2802 was revised in summer of 2012 to incorporate the new requirements in the 2012 CGP. Additional revisions took place after feedback was received from Inspectors during training classes in fall of 2012, with the most current version now being 11-28-2012.

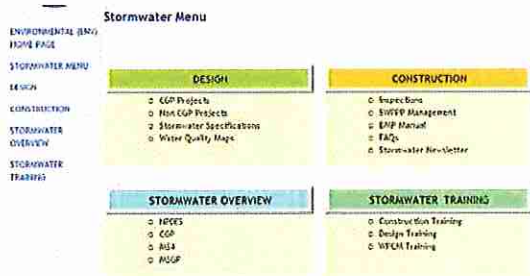
### ESCP Template - #2788

This standard Erosion and Sediment Control Plan template was developed in 04/2012 as form #2788 and should be used on all projects that do not have coverage under the Construction General Permit. Form #2786 was also developed as an inspection form for these projects to accompany the 2788. It's based on an EPA inspection form.

Contact Brad Wolfinger in the Headquarters Environmental Section at 334-8163 or [brad.wolfinger@itd.idaho.gov](mailto:brad.wolfinger@itd.idaho.gov) with any SWPPP Inspection or Recordkeeping related questions.

## ITD Stormwater Website Updates

The format of the ITD Stormwater website has been changed to improve ease of navigation due to the increase in site content over time. New items are regularly added and existing content is updated as needed. The image below shows the site's home page, and the main headings.



Always check the ITD Stormwater Website or Form Finder II for the most current version of all forms, templates, guidance, FAQs, etc. That website address is: <http://itd.idaho.gov/enviro/Stormwater/default.htm>

## Stormwater Training Updates

### Contractor's WPCM Course

-The Water Pollution Control Manager (WPCM) course has been updated to align with the 2012 CGP and new ITD requirements. The ITD approved AGC course has been delivered 11 times in 2012 and 2013, with approximately 150 individuals currently holding the WPCM qualification.

-Additional courses are available based on demand. Contact Lisa Fairchild with the AGC at 208-472-0463 with any availability or scheduling questions or requests.

-This 2-day course can now be taken by non-ITD personnel to obtain the ITD Stormwater Inspector Qualification. Submit an Inspector Qualification Registration Form, found in ITD's Contract Administration (CA) Manual, Section 114, and a copy of your WPCM course completion certificate to the ITD Training & Development Section.

### ITD Stormwater Courses

#### Inspector and Resident Engineer Courses

Historically, these were two separate courses. They have been combined into one Construction Stormwater Course, with the initial qualification course being 2 days and the refresher course being 1 day. 161 individuals attended the 1 day refresher course in 2012, 16 attended the first 2-day initial course held in June 2013.

#### RUSLE II Model Development Courses

An Idaho specific RUSLE II erosion and sediment control model is currently under development. To gather input from District Staff on how to best set up the model for ITD use, two day meetings were held in both April and May, with members of 5 ITD Districts participating. Stay tuned for more information on this tool as it becomes available for use and guidance is released.

### Test Your Stormwater Management I.Q.

1. How many years is the 2012 CGP valid for?
2. What other discharges are allowable under the CGP in addition to stormwater discharges?
3. How fast must routine maintenance on a stormwater or pollution prevention control be dealt with according to the 2012 CGP?
4. Can you list two to three Prohibited Discharges according to CGP part 2.3.1?
5. How do you know when runoff from an ITD project is violating Idaho Water Quality Standards for Turbidity, and must be reported to the EPA via Headquarters?

Volume 7, Issue 2

ITD STORMWATER NEWSLETTER

Summer 2013

## ITD STORMWATER FREQUENTLY ASKED QUESTIONS (FAQs), ETC.

**Q1:** If construction activities result in track out from my project onto off-site streets, sidewalks, or other paved areas, how soon must that paved surfaces be cleaned up?

**A1:** Per CGP part 2.1.2.3.d, you must remove the deposited sediment by the end of the same work day it occurred, or by the end of the next work day if the track out occurred on a non-work day.

**Q2:** The new ITD SWPPP template, ITD form #2950, looks significantly different than the previous template? What is different, and why were these changes made?

**A2:** The content of the new ITD SWPPP template is very similar to the old template. Changes are mainly due to an improved understanding of the regulatory requirements since the 2012 CGP came out last year. Format wise, it was converted to a form-fillable style with much of the instructional verbiage removed. Also, much of the recordkeeping requirements contained in the appendices such as the Corrective Action Reporting Tables, SWPPP Modification Log, or Grading and Stabilization Log, etc., have all been converted to ITD forms. Initial feedback indicates a SWPPP that's easier to develop and implement.

### Compliance Assistance Visits

"Just in Time SWPPP Training", has been completed on approximately 10 ITD projects in 2013. The goal is to give the Inspector and WPCM a SWPPP compliance review after construction begins but still early in the process. Call Brad Wolfinger or Caleb Lakey at HQ ENV to schedule one.

A reminder that Part 1.5 of the 2012 CGP requires all Operators to post signage including the NPDES permit number (NOI #) and a contact name and phone number.



### Test Answers:

1. As currently released, the 2012 CGP is a 5 year permit, expiring in 2017. It is possible that it would be extended like the 2008 permit was.
2. Per CGP Part 1.3.d, a list of non-stormwater discharges are allowed.
3. According to CGP part 2.1.1.4.b.ii and 2.3.2.1, if the problem can be corrected through routine maintenance, you must initiate work to fix the problem immediately after discovery, and complete such work by close of the next work day.
4. Concrete washout, form oils, curing compounds, fuels, oils, soaps, solvents, and other toxic substances are just several listed.
5. Idaho Administrative Code 58.01.02 states that turbidity shall not exceed background turbidity by more than 50 NTU instantaneously or more than 25 NTU for more than 10 consecutive days.

## BMP of the Quarter, ITD BMP NS-2, DEWATERING OPERATIONS

**Description:** Dewatering operations are practices that manage the discharge of pollutants when non-stormwater and/or stormwater must be removed from a work location so that construction work may be accomplished. Commonly used on bridge projects. Water can be pumped to a sediment/desilting basin, a mobile settling tank or treatment device, a basic filtration device such as a gravity bag filter, or an advanced filtration device such as a sand media particulate filter or a chitosan treatment system prior to discharge.

**Applications:** These practices are implemented for management of non-stormwater and stormwater discharges from construction sites. Non-stormwater includes, but is not limited to, groundwater, water from cofferdams, dewatering of piles, water diversions, and waters used during construction activities that must be removed from a work area.

**Limitations include, but are not limited to:** Dewatering operations may require, and must comply with, any and all applicable local or project-specific permits, and all Clean Water Act regulations.

- Site conditions will dictate design and use of dewatering operations.
- As part of the site specific SWPPP, a dewatering plan should be submitted prior to beginning work by the Contractor, detailing the location of dewatering activities and equipment used, as well as all discharge points.
- The ITD Engineer should approved the plan.

**Maintenance:** Conduct inspections as required by applicable permits, SWPPP plan, or contract specifications. Repair or replace to ensure the system is functioning as designed. Accumulated sediment removed during the maintenance of a dewatering device may be either spread on-site and stabilized or disposed of at a disposal site as approved by the Engineer.





# STORM EVENTS

Volume 7, Issue 3

ITD STORMWATER NEWSLETTER

Fall 2013

*Promoting Responsible Stormwater Management Practices Throughout the Idaho Transportation Department and Beyond*

## SWPPP Compliance Reviews

Headquarters Environmental Staff performed approximately 20 stormwater compliance reviews in 2013. The majority were performed on projects with CGP coverage and a SWPPP in place, although a few reviews were completed on smaller projects with simpler ESCPs in place but in areas perceived to be potentially environmentally sensitive. Detailed findings were presented to the staff involved in each project reviewed, but a brief summary of the common omissions or issues observed is provided here:

- SWPPP not signed by all Operators
- EPA NOI Acknowledgement Letters not in SWPPP
- NPDES Signage/Contact Info not visibly posted
- Inconsistencies in project disturbed acreage between NOI, SWPPP, and Inspection Reports
- Dewatering/diversion plans not included in SWPPP
- Plan sheets not updated to show current BMP installs
- Delegation of Signature Authority not in SWPPP
- Certified 2802s slow to be distributed back to SWPPP
- Corrective Action Reports not being completed for significant changes or additions to SWPPP
- Natural Buffers not delineated on site maps

## Successful Fish Window Timing

District 1 Sandpoint office was constructing the Trestle Creek Bridge with August 23<sup>rd</sup> being the deadline for in water work. The deadline was met, and this is what the pool just downstream from the new bridge looked like August 22<sup>nd</sup>. A great example of planning and construction coming together nicely. Well done District 1.



## Stormwater Training

### Contractor's WPCM Course

-91 individuals attended WPCM training in 2012 and 69 have attended so far in 2013

-A reminder that this 2-day course can now be taken by non-ITD personnel to obtain the ITD Stormwater Inspector Qualification. Just submit an Inspector Qualification Registration Form, found in ITD's Contract Administration (CA) Manual, Section 114, and a copy of your WPCM course completion certificate to the ITD Training & Development Section to obtain that qualification

### ITD Construction Stormwater Courses

-A 2-day initial qualification course is being held in District 1 December 3<sup>rd</sup> and 4<sup>th</sup>

-A 1-day refresher course is being held in District 2 on December 5<sup>th</sup>

-Talk to your District Training Specialist for details on attending one of these

-One or more 1-day refresher courses will be offered in Boise in January. These will be open to Consultants

### 'Just in Time SWPPP Training'

Call it on the job training, call it a compliance assistance visit, call it just in time training. Whatever you call it, it's been done on approximately 20 ITD projects in 2013, and is available upon request by the Districts. The goal is to give the Inspector, WPCM, and even the Resident Engineer a SWPPP compliance review after construction begins but still early in the process so that the Inspector and WPCM get the project started off in the right direction.

Call Brad Wolfinger at 344-8163 or Caleb Lakey at 344-8518 at Headquarters Environmental to schedule one.

### Test Your Stormwater Management I.Q.

1. How many Operators are there on a typical ITD Job?
2. Complete this sentence: You must install and make operational any downgradient sediment controls.....
3. What distance does a surface water (Water of the U.S.) have to be from your projects disturbance to trigger a Natural Buffer evaluation?
4. If sediment track-out occurs onto off-site streets, how soon must it be cleaned up?
5. If your project is discharging to a sediment or nutrient impaired water, what impact does it have on inspection frequency?

Volume 7, Issue 3

ITD STORMWATER NEWSLETTER

Fall 2013

## ITD STORMWATER FREQUENTLY ASKED QUESTIONS (FAQs), ETC.

**Q1:** There are a bunch of new forms on form finder under the Construction tab - SWPPP Management section. Specifically forms 2950-2959 showed up this spring. What are all these forms for?

**A1:** These are nothing more than the supporting documentation and recordkeeping for the SWPPP which go into the applicable SWPPP appendices. This is the same information that has always been included in the SWPPP Appendices, just created as individual forms that can be pulled off the stormwater website or Form Finder II if additional copies are needed for a project.

**Q2:** With winter showing up across Idaho, how might the inspection frequency change on my project?

**A2:** CGP 4.1.4.1 allows inspections to be decreased to monthly once the project is meeting permit stabilization requirements. CGP 4.1.4.3 actually allows inspections to be waived completely for frozen conditions. However, to waive inspections completely the project must be meeting permit stabilization requirements AND be frozen continuously for 3 months straight based on historic seasonal averages. This typically applies to higher elevation or some of the mountainous areas in Idaho, not the Snake River Plain of southern Idaho where milder winters are common.

Reminder:  
Part 1.5 of  
the 2012  
CGP requires  
posting of  
signage  
including the  
NPDES  
permit  
number (NOI  
#) and a  
contact name  
and phone  
number  
visible to the  
public.



### Test Answers:

1. On typically ITD jobs, ITD and the Prime Contractor are Operators. On some ITD jobs, and all LHTAC jobs, there are 3 Operators because the projects local sponsor also has CGP coverage.
2. ....by the time earth-disturbing activities in any given portion of your site have begun, unless infeasible.
3. Retention of natural buffers or equivalent sediment controls, or buffer exceptions must be evaluated when surface waters are within 50 feet of your project's earth disturbance.
4. You must remove deposited sediment by the end of the same work day in which it occurred, typically by dry methods like sweeping or vacuuming.
5. Inspection frequency increases to once every 7 days AND within 24 hours of 0.25" or greater of rainfall. Reductions may still apply though if your project is stabilized, in an arid and semi-arid area, or frozen.

## *BMP of the Quarter* - WASTE MANAGEMENT (WM)-9 CONCRETE WASTE MANAGEMENT

**Description:** These procedures and practices are designed to minimize or eliminate the discharge of concrete waste materials to the storm drain systems or to watercourses. Both above grade and below grade washout facilities may be utilized.

**Applications:** Concrete waste management procedures and practices are implemented on projects where:

- Concrete or mortar is used as a construction material or where concrete dust and debris result from demolition activities.
- Slurries containing portland cement concrete (PCC) or asphalt concrete (AC) are generated, such as from saw cutting, coring, grinding, grooving, and hydro-concrete demolition.
- Concrete trucks and other concrete-coated equipment are washed on-site, or where mortar-mixing stations exist.
- Treat all concrete waste generated through QA/QC testing in the same manner for disposal

**Maintenance:** Remove hardened concrete and dispose of in accordance with solid waste handling procedures.

**Limitations** include, but are not limited to: Site location and layout may constrain appropriate location of an onsite washout. For large or multiple pours, numerous washout facilities may be required.

**Other References:** Refer to ITD Standard Drawing P-5-B for design guidelines.



# District 1 MS4 WQ Results

## Concentration

MS4 Outlet	Date	Flow (cfs)	Temp	TSS (mg/L)	Nitrate	Nitrite	TKN	TP	T. Lead	T. Zinc	hardness	Cl	Mg	Ca	PCBs
Dw Sherna	11/6/2008	NA	NA	10	2.51	ND	0.62	0.061	ND	ND	112	17	11.1	26.4	ND
	7/1/2009	NA	NA	3	1.59	ND	0.57	0.126	ND	ND	NA	19	8.6	26.4	ND
	12/22/2009	NA	NA	96	2.37	ND	1.01	0.23	ND	0.071	77.6	21	18.3	7.75	ND
	3/26/2010	NA	NA	19	0.76	ND	0.4	0.07	ND	0.025	40.6	9.2	3.82	9.98	ND
	6/9/2010	6.92	13 c	15	0.63	ND	0.29	0.067	ND	0.017	30	NA	2.68	7.6	ND
	10/29/2010	1.66	7 c	85	2.11	ND	0.86	0.17	0.012	0.046	90.6	NA	8.76	21.8	ND
	4/11/2011	8.75	12 c	13	0.59	ND	0.27	0.066	ND	0.019	30.3	NA	2.81	7.51	ND
	6/13/2011	2.19	14 c	16	0.38	ND	0.38	0.0686	ND	ND	36.3	NA	3.34	8.96	ND
	11/22/2011	13.65	38 f	47	0.51	ND	0.51	0.155	ND	0.039	10.4	NA	1.09	2.35	ND
	1/30/2012	8.87	5 c	40	0.945	ND	0.435	0.132	ND	0.02	28.3	NA	2.78	6.68	NA
	4/26/2012	2.36	12.4 c	106	3.4	ND	3.4	0.186	0.011	0.06	40.2	6.19	4.04	9.36	ND
	6/5/2012	1.2	14.7	8	0.285	ND	0.285	0.046	ND	ND	37.6	5.07	3.12	9.82	ND
	8/22/2012	0		15	2	ND	1.19	0.119	ND	0.019	54.5	15.7	4.66	14.1	ND
	10/30/2012	0.06	9.8	14	1.22	ND	0.528	0.121	ND	0.037	66.5	12.7	6.3	16.1	ND
	5/28/2013	1.69	12	54	0.716	ND	0.716	0.119	ND	0.041	33.4	12.1	3.46	7.66	ND
	6/19/2013	0.57	19	21	0.914	ND	0.914	0.161	ND	0.033	29.3	6.71	2.35	7.85	ND
	8/30/2013	1	18.5	30	2.26	ND	1.31	0.218	0.0049	0.0398	32.5	5.58	2.39	9.07	ND

# Accurate Testing Labs, LLC

7950 Meadowlark Way  
Coeur d'Alene, ID 83815  
Phone (208) 762 8378 Fax (208) 762 9082  
www.accuratetesting.com  
info@accuratetesting.com

# Certificate of Analysis

Order No.: 2013050437

Page: 2 of 2

Sample:	2	Matrix:	Non-Potable Water
Location:	Below Sherman IC	D/T Collected:	05/28/2013 15:50
Sample Type:	Grabs	Collected by:	Mike Hartz

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	7.66	mg/L	SM 3120	0.06	05/30/13	WM
Chloride	12.1	mg/L	SM 4110B	0.5	05/29/13	WM
Hardness, Total (as CaCO <sub>3</sub> )	33.4	mg/L	SM 2340	0.2	05/30/13	WM
Magnesium	3.46	mg/L	SM 3120	0.03	05/30/13	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	05/29/13	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	05/29/13	WM
Phosphorus, Total	0.119	mg/L	EPA 365.1	0.010	05/30/13	WM
Lead	ND	mg/L	SM 3120	0.01	06/03/13	WM
Total Kjeldahl Nitrogen (N)	0.716	mg/L	SM 4500N D	0.06	06/03/13	AC
Total Nitrogen (N)	0.716	mg/L	SM 4500N	0.04	06/03/13	WM
Total Suspended Solids	54	mg/L	SM 2540	1	05/30/13	AC
Zinc	0.041	mg/L	SM 3120	0.01	06/03/13	WM

Comments:



Laboratory Supervisor, Walter Mueller Date: 06/13/13

ND: Not Detected PQL: Practical Quantitation Limit

# Accurate Testing Labs, LLC

7950 Meadowlark Way  
Coeur d'Alene, ID 83815  
Phone (208) 762 8378 Fax (208) 762 9082  
www.accuratetesting.com  
info@accuratetesting.com

# Certificate of Analysis

Order No.: **2013050437**

Page: 1 of 2

Idaho Transportation Dept  
600 W. Prairie Ave  
Coeur d'Alene, ID 83815

Project: ITD-DI-MS4 Sampling

Date Received: 05/29/2013 07:30

Sample: **1** Matrix: Non-Potable Water  
Location: Below Sherman IC D/T Collected: 05/28/2013 15:50  
Sample Type: Grabs Collected by: Mike Hartz

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	06/11/13	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	06/11/13	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	06/11/13	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	06/11/13	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	06/11/13	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	06/11/13	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	06/11/13	ANA

Comments:



Laboratory Supervisor, Walter Mueller Date: 06/13/13

ND: Not Detected PQL: Practical Quantitation Limit

# Accurate Testing Labs, LLC

7950 Meadowlark Way  
Coeur d'Alene, ID 83815  
Phone (208) 762 8378 Fax (208) 762 9082  
www.accuratetesting.com  
info@accuratetesting.com

# Certificate of Analysis

Order No.: **2013060319**

Page: 2 of 2

Sample:	<b>2</b>	Matrix:	Non-Potable Water
Location:	Below Sherman IC	D/T Collected:	06/19/2013 08:15
Sample Type:	Grabs	Collected by:	Mike Hartz

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	7.85	mg/L	EPA 200.7	0.17	06/20/13	WM
Magnesium	2.35	mg/L	EPA 200.7	0.03	06/20/13	WM
Hardness, Total (as CaCO <sub>3</sub> )	29.3	mg/L	SM 2340	0.2	06/20/13	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	06/19/13	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	06/19/13	WM
Chloride	6.71	mg/L	SM 4110B	0.5	06/19/13	WM
Lead	ND	mg/L	SM 3120	0.01	06/25/13	WM
Zinc	0.033	mg/L	SM 3120	0.01	06/25/13	WM
Total Kjeldahl Nitrogen (N)	0.914	mg/L	SM 4500N D	0.06	06/24/13	AC
Total Nitrogen (N)	0.914	mg/L	SM 4500N	0.04	06/24/13	WM
Phosphorus, Total	0.161	mg/L	EPA 365.1	0.010	06/20/13	WM
Total Suspended Solids	21	mg/L	SM 2540	1	06/20/13	AH

Comments:



Laboratory Supervisor, Walter Mueller Date: 07/09/13

ND: Not Detected PQL: Practical Quantitation Limit

# Accurate Testing Labs, LLC

7950 Meadowlark Way  
Coeur d'Alene, ID 83815  
Phone (208) 762 8378 Fax (208) 762 9082  
www.accuratetesting.com  
info@accuratetesting.com

# Certificate of Analysis

Order No.: **2013060319**

Page: 1 of 2

Idaho Transportation Dept  
600 W. Prairie Ave  
Coeur d'Alene, ID 83815

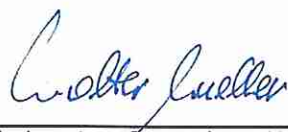
Project: ITD MS4 Sampling

Date Received: 06/19/2013 09:00

Sample: **1** Matrix: Non-Potable Water  
Location: Below Sherman IC D/T Collected: 06/19/2013 08:15  
Sample Type: Grabs Collected by: Mike Hartz

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
PCB (total)	ND	ug/L	EPA 8082	0.2	06/27/13	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.2	06/27/13	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	06/27/13	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	06/27/13	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	06/27/13	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	06/27/13	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	06/27/13	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	06/27/13	ANA

Comments:



Laboratory Supervisor, Walter Mueller Date: 07/09/13

ND: Not Detected PQL: Practical Quantitation Limit

# Accurate Testing Labs, LLC

7950 Meadowlark Way  
Coeur d'Alene, ID 83815  
Phone (208) 762 8378 Fax (208) 762 9082  
www.accuratetesting.com  
info@accuratetesting.com

# Certificate of Analysis

Order No.: **2013080718**

Page: 1 of 2

Idaho Transportation Dept  
600 W. Prairie Ave  
Coeur d'Alene, ID 83815

Project: Idaho Transportation Dept

Date Received: 08/30/2013 09:32

Sample: **1** Matrix: Non-Potable Water  
Location: Sherman Ave D/T Collected: 08/30/2013 09:03  
Sample Type: Grabs Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	9.07	mg/L	EPA 200.7	0.17	09/06/13	WM
Chloride	5.58	mg/L	SM 4110B	0.5	08/30/13	WM
Hardness, Total (as CaCO <sub>3</sub> )	32.5	mg/L	SM 2340	0.2	09/06/13	WM
Lead	0.0049	mg/L	SM 3120	0.001	09/12/13	WM
Magnesium	2.39	mg/L	EPA 200.7	0.03	09/06/13	WM
Nitrate-N	0.95	mg/L	SM 4110B	0.5	08/30/13	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	08/30/13	WM
Phosphorus, Total	0.218	mg/L	EPA 365.1	0.010	09/06/13	WM
Total Kjeldahl Nitrogen (N)	1.31	mg/L	SM 4500N D	0.06	09/10/13	AC
Total Nitrogen (N)	2.26	mg/L	SM 4500N	0.04	09/10/13	WM
Total Suspended Solids	30	mg/L	SM 2540	1	09/06/13	AH
Zinc	0.0398	mg/L	SM 3120	0.0301	09/12/13	WM

Comments:



Laboratory Supervisor, Walter Mueller Date: 09/13/13

ND: Not Detected PQL: Practical Quantitation Limit

# Accurate Testing Labs, LLC

7950 Meadowlark Way  
Coeur d'Alene, ID 83815  
Phone (208) 762 8378 Fax (208) 762 9082  
www.accuratetesting.com  
info@accuratetesting.com

## Certificate of Analysis

Order No.: **2013080718**

Page: 2 of 2

Sample: **2** Matrix: Non-Potable Water  
Location: Sherman Ave D/T Collected: 08/30/2013 09:03  
Sample Type: Grabs Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	09/11/13	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.2	09/11/13	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	09/11/13	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	09/11/13	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	09/11/13	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	09/11/13	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	09/11/13	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	09/11/13	ANA

Comments:



Laboratory Supervisor, Walter Mueller Date: 09/13/13

ND: Not Detected PQL: Practical Quantitation Limit